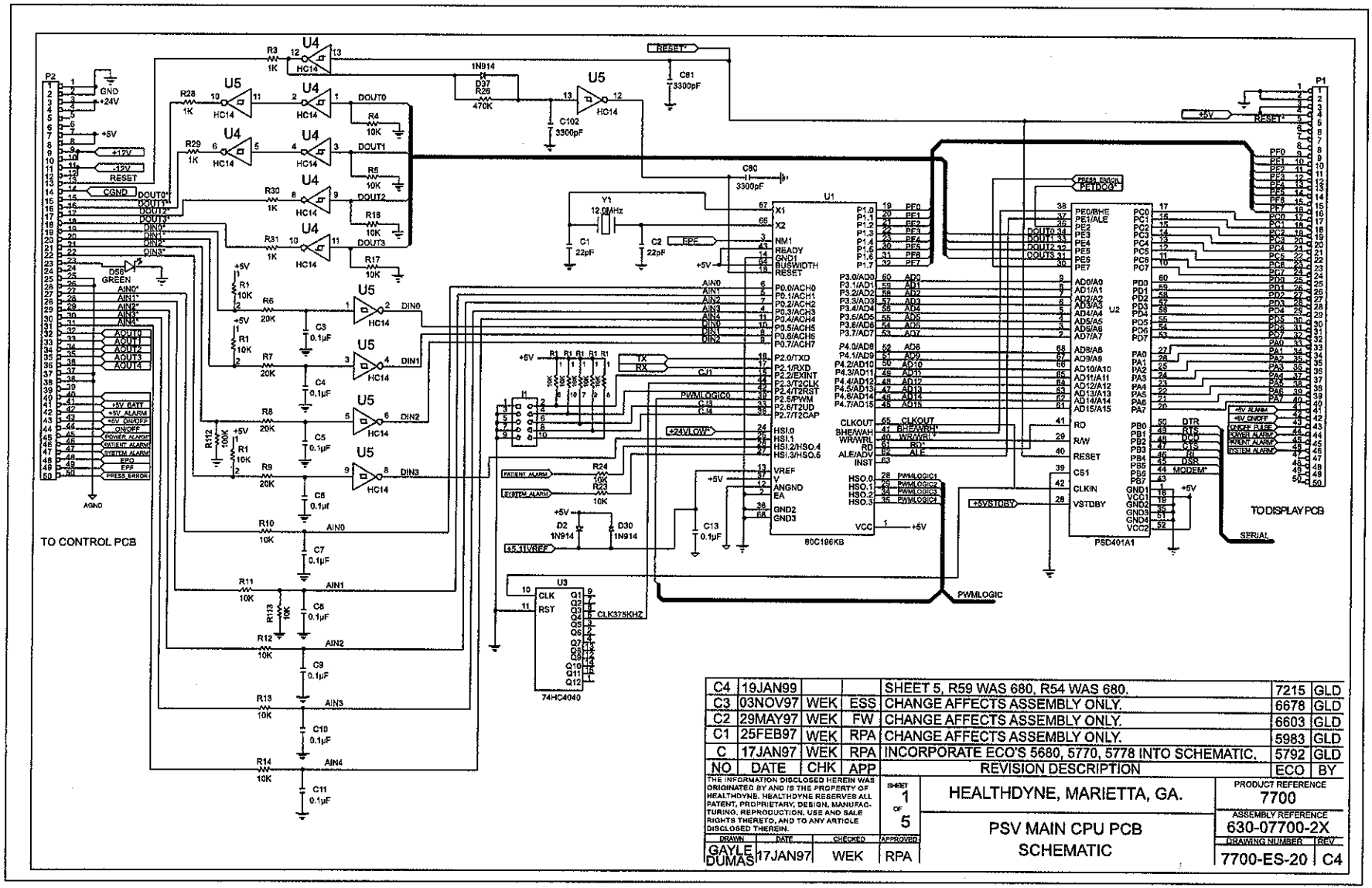
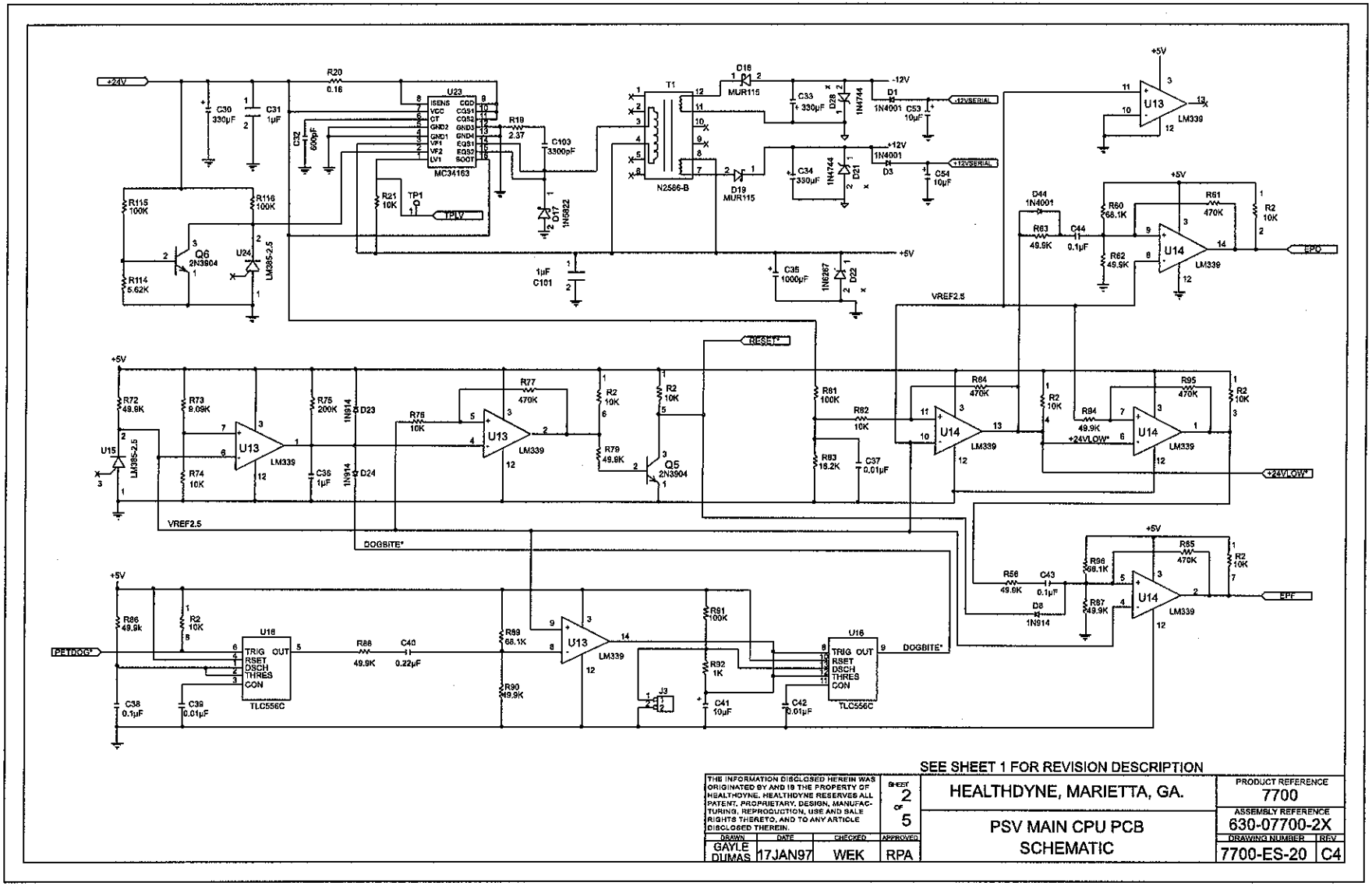
Notes:



NO	DATE	CHK	APP	REVISION DESCRIPTION	ECO	BY
C4	19JAN99			SHEET 5, R59 WAS 680, R54 WAS 680.	7215	GLD
C3	03NOV97	WEK	ESS	CHANGE AFFECTS ASSEMBLY ONLY.	6678	GLD
C2	29MAY97	WEK	FW	CHANGE AFFECTS ASSEMBLY ONLY.	6603	GLD
C1	25FEB97	WEK	RPA	CHANGE AFFECTS ASSEMBLY ONLY.	5983	GLD
C	17JAN97	WEK	RPA	INCORPORATE ECO'S 5680, 5770, 5778 INTO SCHEMATIC.	5792	GLD

Notes:



SEE SHEET 1 FOR REVISION DESCRIPTION

THE INFORMATION DISCLOSED HEREIN WAS ORIGINATED BY AND IS THE PROPERTY OF HEALTHDYNE. HEALTHDYNE RESERVES ALL PATENT, PROPRIETARY, DESIGN, MANUFACTURING, REPRODUCTION, USE AND SALE RIGHTS THERETO, AND TO ANY ARTICLE DISCLOSED THEREIN.

DRAWN	DATE	CHECKED	APPROVED
GAYLE DUMAS	17JAN97	WEK	RPA

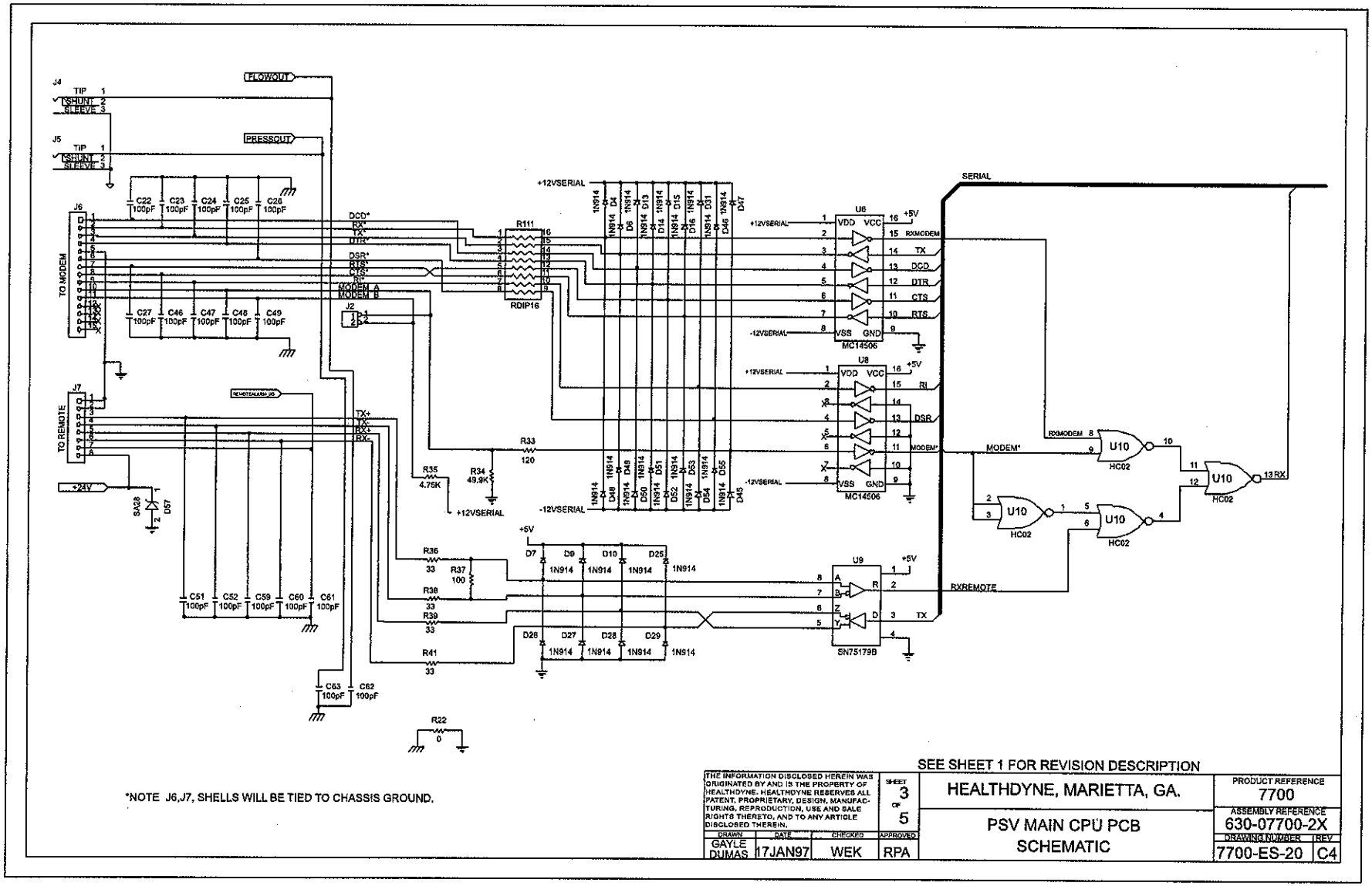
SHEET 2 OF 5

HEALTHDYNE, MARIETTA, GA.

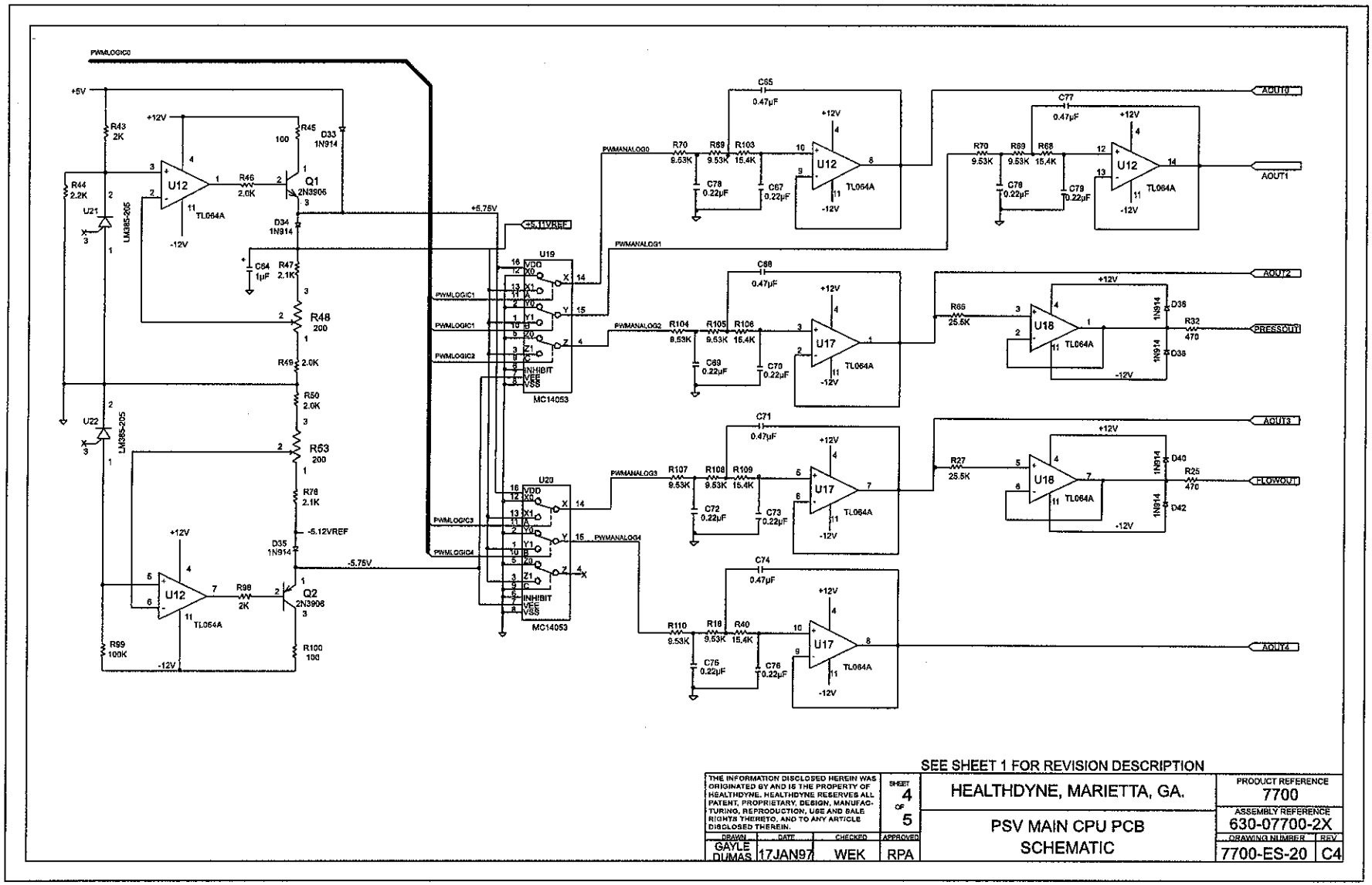
PSV MAIN CPU PCB SCHEMATIC

PRODUCT REFERENCE	7700
ASSEMBLY REFERENCE	630-07700-2X
DRAWING NUMBER	7700-ES-20
REV	C4

Notes:


FLOWOUT
PRESSOUT
TO MODEM
TO REMOTE
MODEM A
MODEM B
+12VSERIAL
-12VSERIAL
SERIAL
RDIP16
MC14506
SN75179B
HC02
RXMODEM
MODEM*
RXREMOTE
+24V
+5V
*NOTE J6,J7, SHELLS WILL BE TIED TO CHASSIS GROUND.
SEE SHEET 1 FOR REVISION DESCRIPTION
THE INFORMATION DISCLOSED HEREIN WAS ORIGINATED BY AND IS THE PROPERTY OF HEALTHDYNE. HEALTHDYNE RESERVES ALL PATENT, PROPRIETARY, DESIGN, MANUFACTURING, REPRODUCTION, USE AND SALE RIGHTS THERETO, AND TO ANY ARTICLE DISCLOSED THEREIN.
DRAWN GAYLE DUMAS
DATE 17JAN97
CHECKED WEK
APPROVED RPA
SHEET 3 OF 5
HEALTHDYNE, MARIETTA, GA.
PSV MAIN CPU PCB SCHEMATIC
PRODUCT REFERENCE 7700
ASSEMBLY REFERENCE 630-07700-2X
DRAWING NUMBER 7700-ES-20
REV C4

Notes:



SEE SHEET 1 FOR REVISION DESCRIPTION

THE INFORMATION DISCLOSED HEREIN WAS ORIGINATED BY AND IS THE PROPERTY OF HEALTHDYNE. HEALTHDYNE RESERVES ALL PATENT, PROPRIETARY, DESIGN, MANUFACTURING, REPRODUCTION, USE AND SALE RIGHTS THERETO, AND TO ANY ARTICLE DISCLOSED THEREIN.

SHEET	OF
4	5

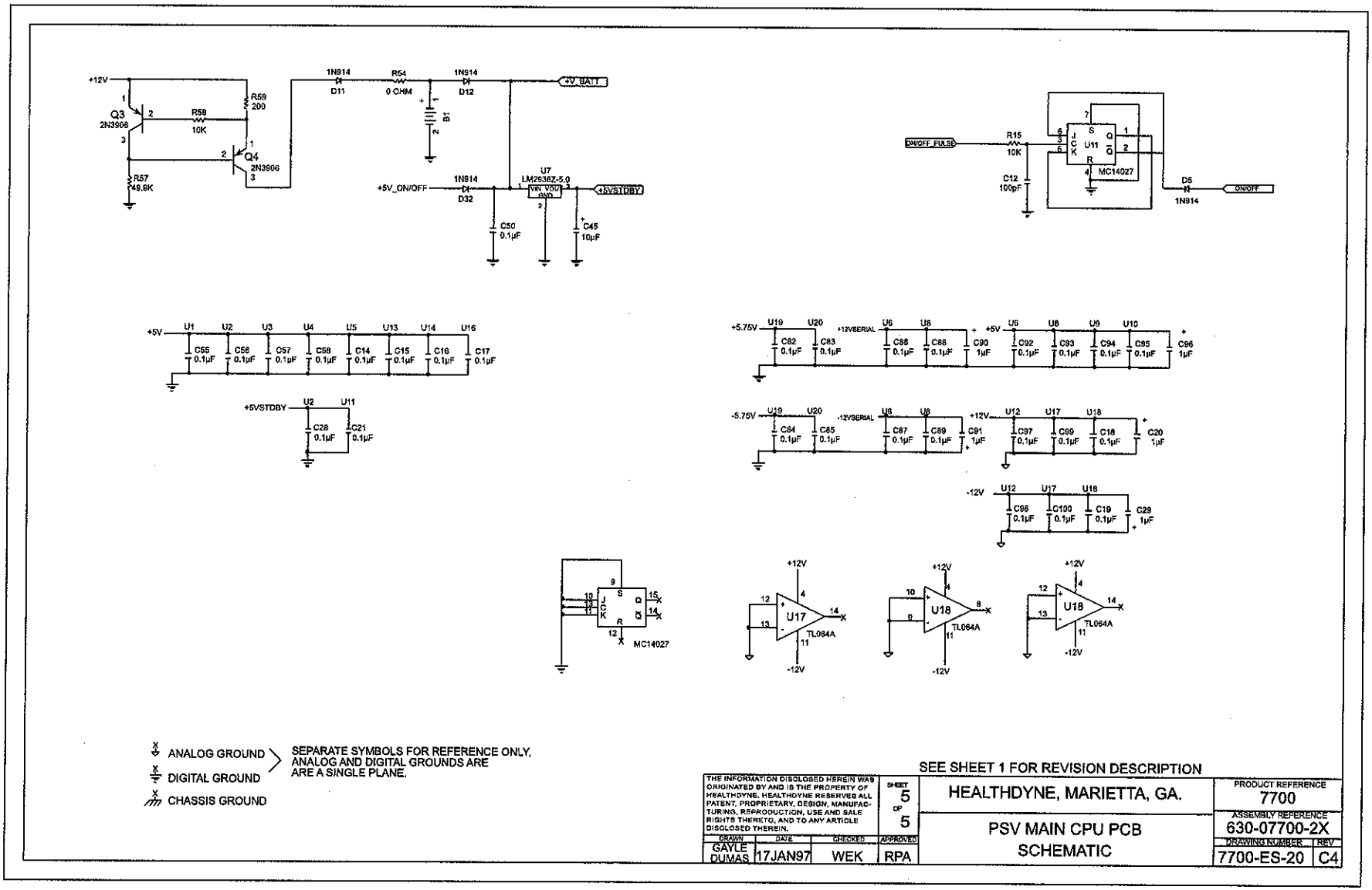
HEALTHDYNE, MARIETTA, GA.

PSV MAIN CPU PCB
SCHEMATIC

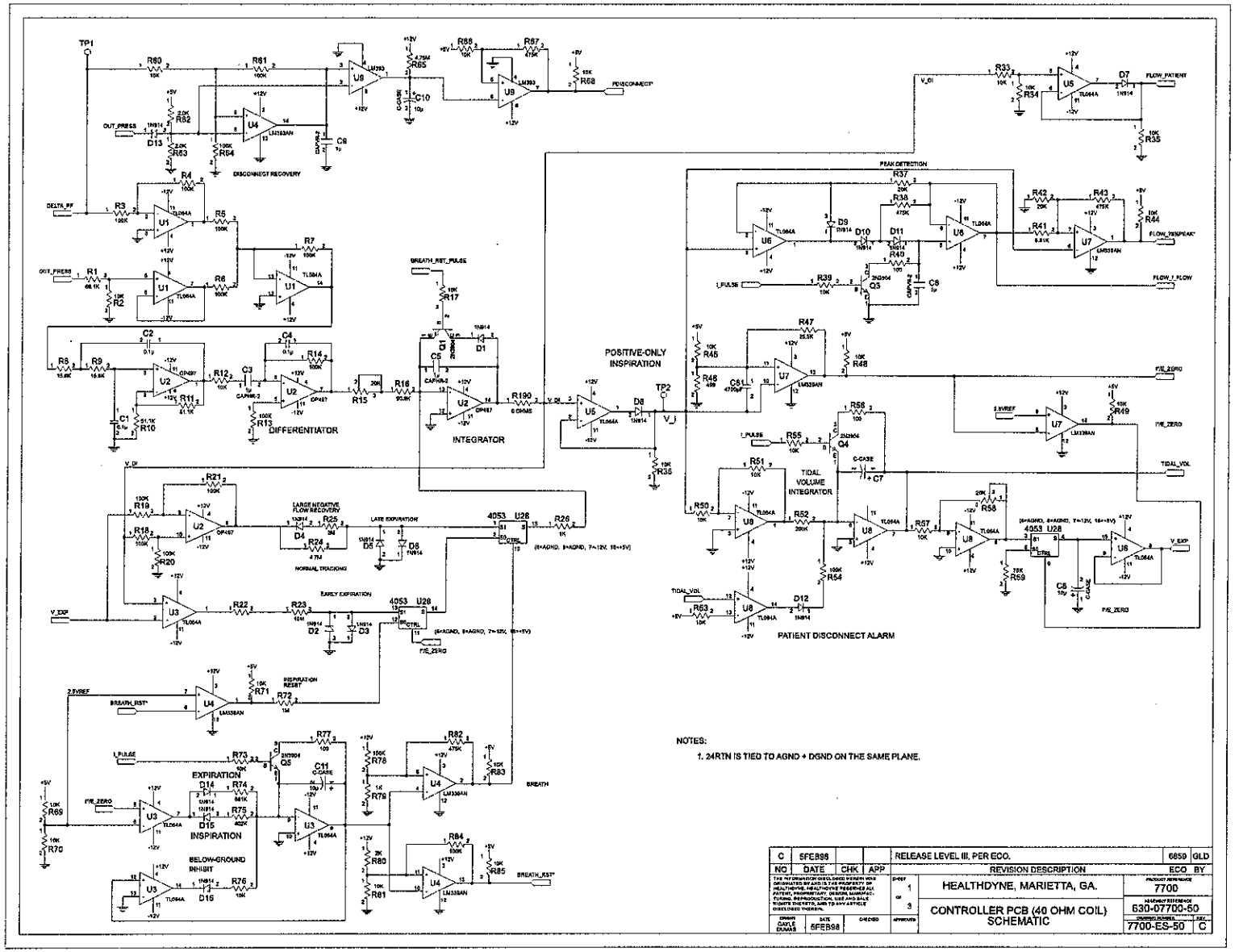
DRAWN	DATE	CHECKED	APPROVED
GAYLE DUMAS	17JAN97	WEK	RPA

PRODUCT REFERENCE	
7700	
ASSEMBLY REFERENCE	
630-07700-2X	
DRAWING NUMBER	REV
7700-ES-20	C4

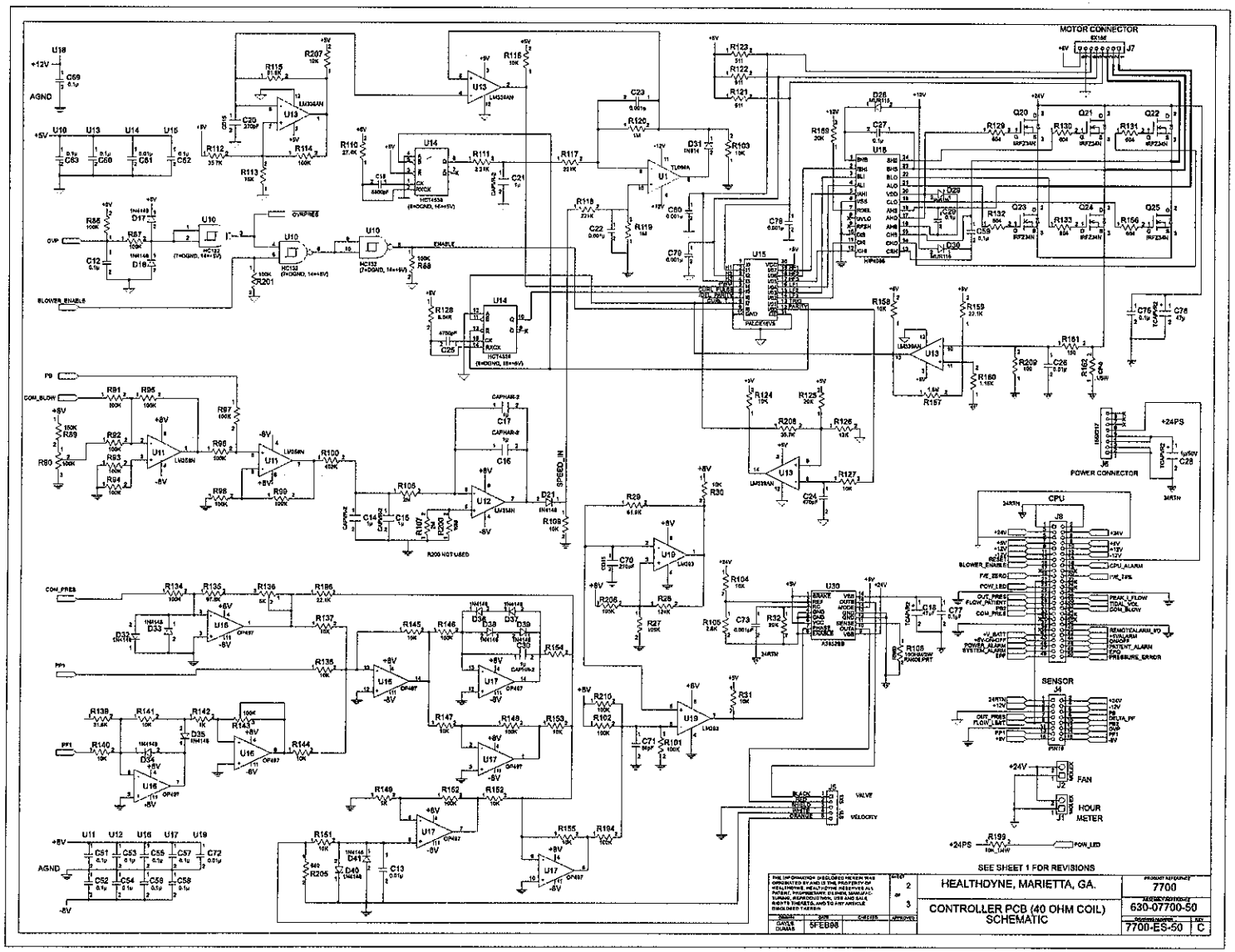
Notes:


+12V
Q3 2N3906
Q4 2N3906
R59 200
R59 10K
R57 49.9K
1N914 D11
R54 0 OHM
1N914 D12
+V_BATT
B1
+5V_ON/OFF
1N914 D32
U7 LM2936Z-5.0
+5VSTDBY
C50 0.1µF
C45 10µF
ON/OFF_PULSE
R15 10K
C12 100pF
U11 MC14027
D5 1N914
ON/OFF
+5V
U1 U2 U3 U4 U5 U13 U14 U16
C55 0.1µF C56 0.1µF C57 0.1µF C58 0.1µF C14 0.1µF C15 0.1µF C16 0.1µF C17 0.1µF
+5VSTDBY U2 U11
C28 0.1µF C21 0.1µF
+5.75V U19 U20 +12VSERIAL U6 U8 +5V U6 U8 U9 U10
C82 0.1µF C83 0.1µF C88 0.1µF C88 0.1µF C90 1µF C92 0.1µF C93 0.1µF C94 0.1µF C95 0.1µF C96 1µF
-5.75V U19 U20 -12VSERIAL U6 U8 +12V U12 U17 U18
C84 0.1µF C85 0.1µF C87 0.1µF C89 0.1µF C91 1µF C97 0.1µF C99 0.1µF C18 0.1µF C20 1µF
-12V U12 U17 U18
C98 0.1µF C100 0.1µF C19 0.1µF C29 1µF
MC14027
U17 TL064A
U18 TL064A
U18 TL064A
ANALOG GROUND
DIGITAL GROUND
CHASSIS GROUND
SEPARATE SYMBOLS FOR REFERENCE ONLY, ANALOG AND DIGITAL GROUNDS ARE ARE A SINGLE PLANE.
SEE SHEET 1 FOR REVISION DESCRIPTION
THE INFORMATION DISCLOSED HEREIN WAS ORIGINATED BY AND IS THE PROPERTY OF HEALTHDYNE. HEALTHDYNE RESERVES ALL PATENT, PROPRIETARY, DESIGN, MANUFACTURING, REPRODUCTION, USE AND SALE RIGHTS THERETO, AND TO ANY ARTICLE DISCLOSED THEREIN.
SHEET 5 OF 5
DRAWN GAYLE DUMAS
DATE 17JAN97
CHECKED WEK
APPROVED RPA
HEALTHDYNE, MARIETTA, GA.
PSV MAIN CPU PCB SCHEMATIC
PRODUCT REFERENCE 7700
ASSEMBLY REFERENCE 630-07700-2X
DRAWING NUMBER 7700-ES-20
REV C4

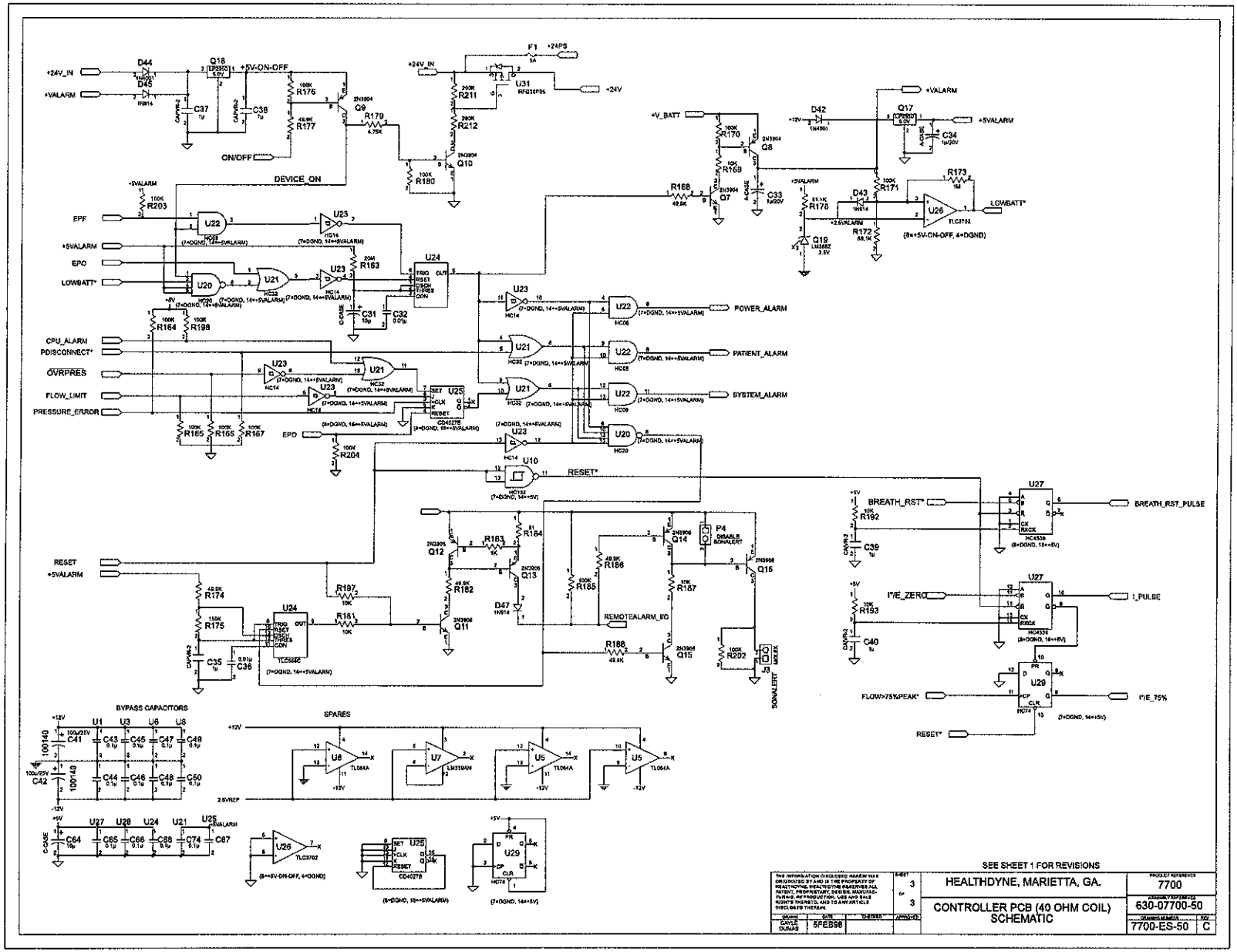
Notes:


DISCONNECT RECOVERY
DIFFERENTIATOR
INTEGRATOR
POSITIVE-ONLY INSPIRATION
PEAK DETECTION
TIDAL VOLUME INTEGRATOR
PATIENT DISCONNECT ALARM
EXPIRATION
INSPIRATION
BELOW-GROUND EXHIBIT
BREATH
NOTES:
1. 24RTN IS TIED TO AGND + DGND ON THE SAME PLANE.
RELEASE LEVEL III, PER ECO.
HEALTHDYNE, MARIETTA, GA.
CONTROLLER PCB (40 OHM COIL) SCHEMATIC
7700
630-07700-50
7700-ES-50
C

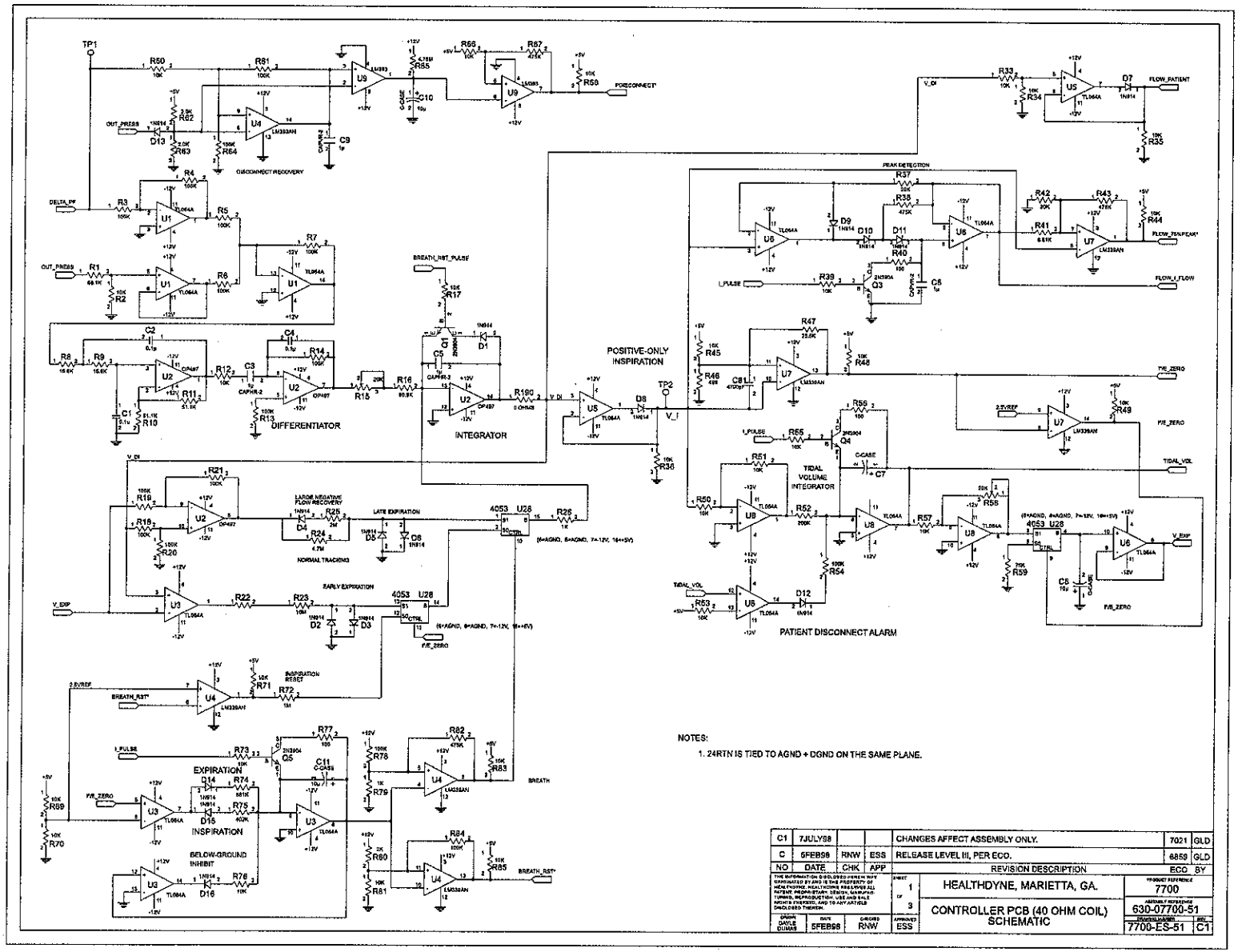
Notes:


MOTOR CONNECTOR
POWER CONNECTOR
CPU
SENSOR
FAN
HOUR METER
VALVE
VELOCITY
SEE SHEET 1 FOR REVISIONS
HEALTHDYNE, MARIETTA, GA.
CONTROLLER PCB (40 OHM COIL) SCHEMATIC
7700
630-07700-50
7700-ES-50
C

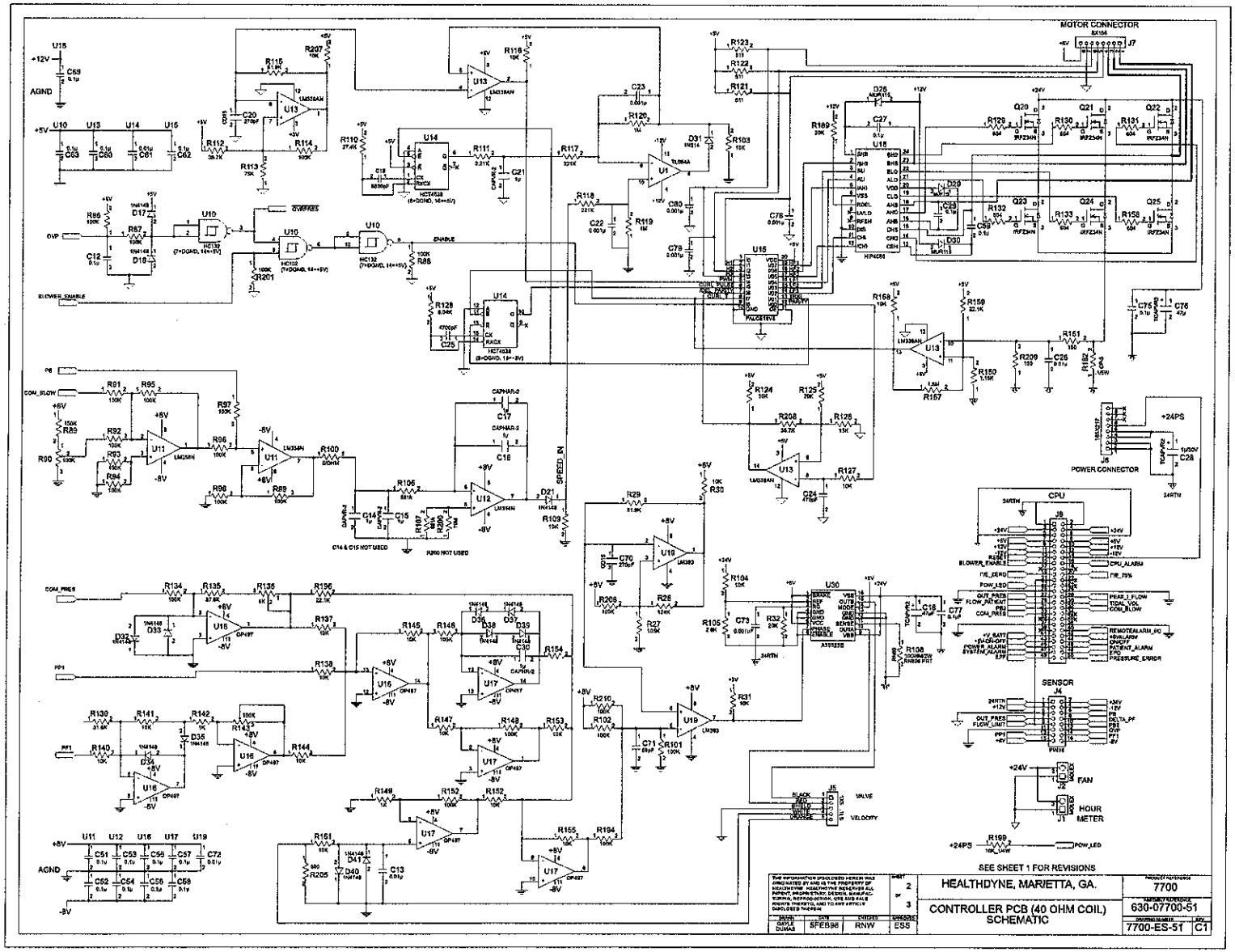
Notes:


+24V_IN
+VALARM
+5V-ON-OFF
ON/OFF
DEVICE_ON
+V_BATT
+5VALARM
LOWBATT*
EPF
EPO
CPU_ALARM
PDISCONNECT*
OVRPRES
FLOW_LIMIT
PRESSURE_ERROR
POWER_ALARM
PATIENT_ALARM
SYSTEM_ALARM
RESET*
RESET
BREATH_RST*
BREATH_RST_PULSE
I*E_ZERO
I_PULSE
FLOW>75%PEAK*
I*E_75%
REMOTEALARM_I/O
SONALERT*
BYPASS CAPACITORS
SPARES
SEE SHEET 1 FOR REVISIONS
HEALTHDYNE, MARIETTA, GA.
7700
CONTROLLER PCB (40 OHM COIL) SCHEMATIC
630-07700-50
7700-ES-50
C
5FEB98

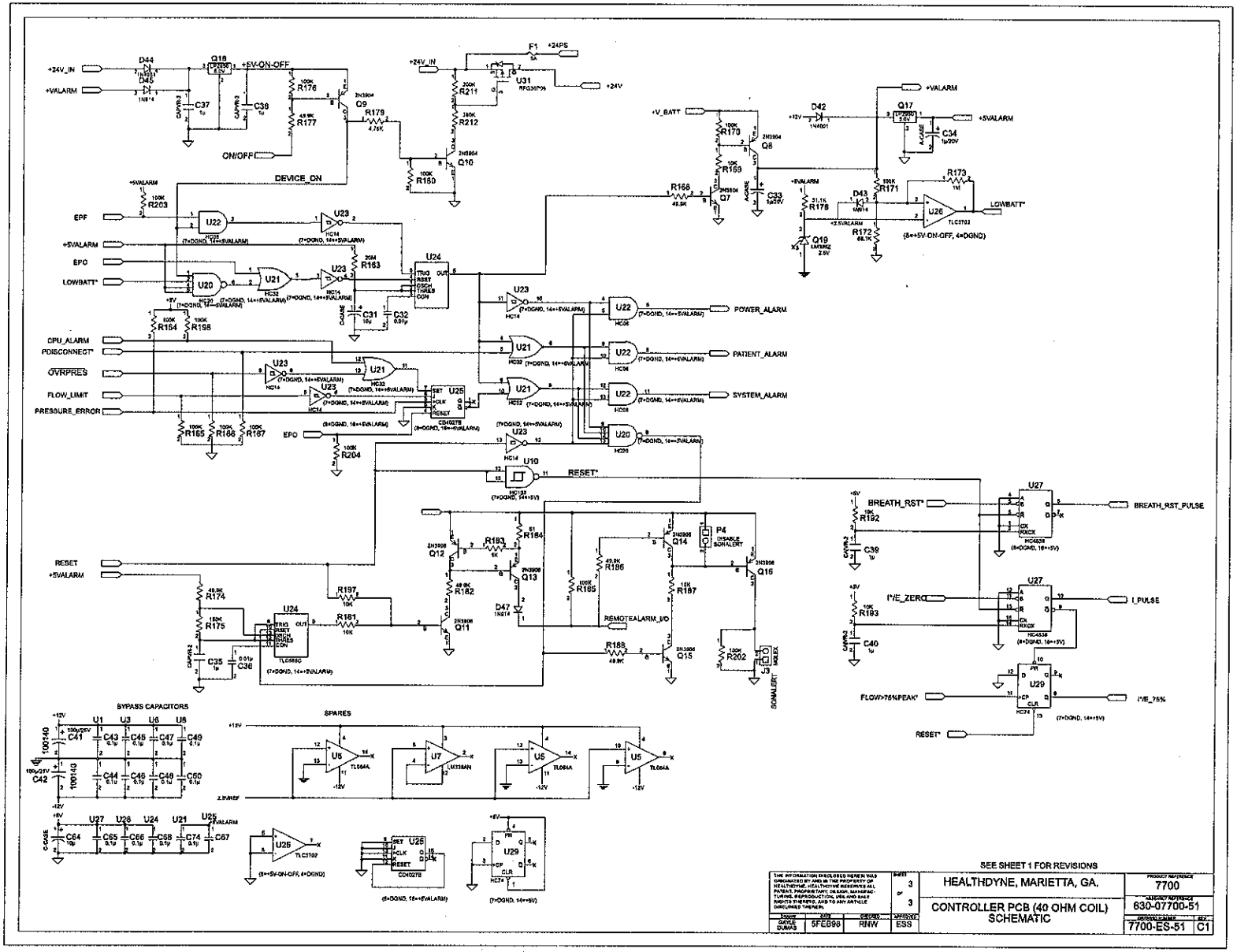
Notes:


DIFFERENTIATOR
INTEGRATOR
POSITIVE-ONLY INSPIRATION
TIDAL VOLUME INTEGRATOR
PATIENT DISCONNECT ALARM
EXPIRATION
INSPIRATION
BELOW-GROUND INHIBIT
NOTES:
1. 24RTN IS TIED TO AGND + DGND ON THE SAME PLANE.
HEALTHDYNE, MARIETTA, GA.
CONTROLLER PCB (40 OHM COIL) SCHEMATIC
7700
630-07700-51
7700-ES-51
C1
CHANGES AFFECT ASSEMBLY ONLY.
RELEASE LEVEL III, PER ECO.

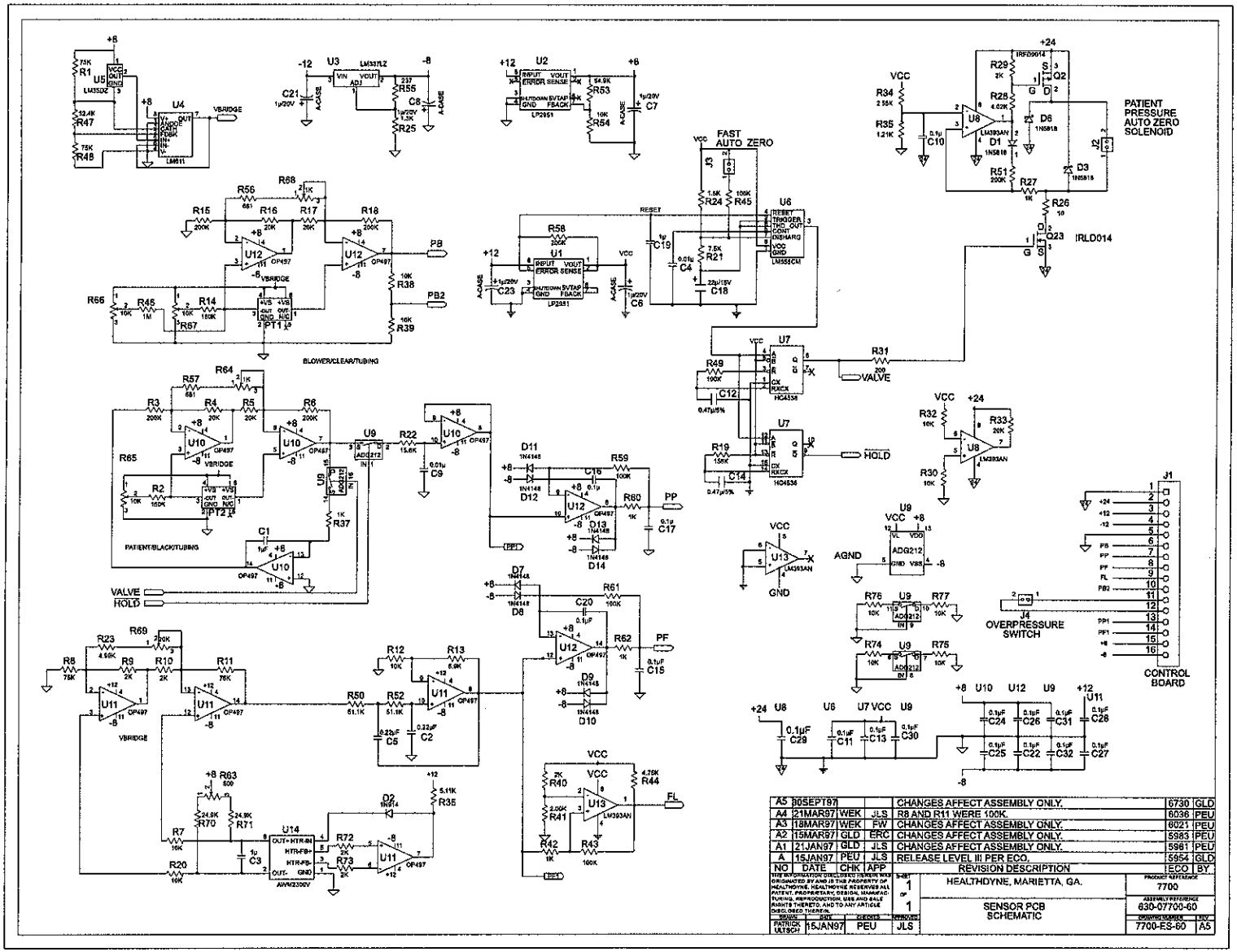
Notes:


MOTOR CONNECTOR
POWER CONNECTOR
CPU
SENSOR
FAN
HOUR METER
SEE SHEET 1 FOR REVISIONS
HEALTHDYNE, MARIETTA, GA.
7700
CONTROLLER PCB (40 OHM COIL) SCHEMATIC
630-07700-51
7700-ES-51
C1

Notes:


+24V_IN
+VALARM
+5V-ON-OFF
ON/OFF
DEVICE_ON
+V_BATT
+5VALARM
LOWBATT*
EPO
CPU_ALARM
PDISCONNECT*
OVRPRES
FLOW_LIMIT
PRESSURE_ERROR
POWER_ALARM
PATIENT_ALARM
SYSTEM_ALARM
RESET*
RESET
BREATH_RST*
BREATH_RST_PULSE
I*/E_ZERO
I_PULSE
FLOW>75%PEAK*
I*/E_75%
REMOTEALARM_I/O
SIGNALERT* INDEX
BYPASS CAPACITORS
SPARES
SEE SHEET 1 FOR REVISIONS
HEALTHDYNE, MARIETTA, GA.
CONTROLLER PCB (40 OHM COIL) SCHEMATIC
7700
630-07700-51
7700-ES-51
C1
5FEB98
RNW
ESS

Notes:


FAST AUTO ZERO
PATIENT PRESSURE AUTO ZERO SOLENOID
VALVE
HOLD
OVERPRESSURE SWITCH
CONTROL BOARD
BLOWER/CLEAR/TUBING
PATIENT/BLACK/TUBING
VBRIDGE
AGND
GND
VCC
PP
PF
FL
PB
PB2
PP1
PF1
IRLD014
SENSOR PCB SCHEMATIC
HEALTHDYNE, MARIETTA, GA.
7700
630-07700-60
7700-ES-60
A5
CHANGES AFFECT ASSEMBLY ONLY.
R8 AND R11 WERE 100K.
RELEASE LEVEL III PER ECO.
REVISION DESCRIPTION
PATRICK ULTSCH
15JAN97
PEU
JLS

RESPIRONICS INC.®
1501 Ardmore Boulevard
Pittsburgh, Pennsylvania
15221-4401 USA

RESPIRONICS INC.®
1255 Kennestone Circle
Marietta, Georgia
30066 USA

RESPIRONICS®
Deutschland
Gewerbesterasse 17
D-82211 Herrsching Germany

CE
0459

Reorder#1002895

1002917
09/01/1999